**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Homework: DNA replication and protein synthesis**

**DNA replication:**

**Table of letters and DNA codons:**

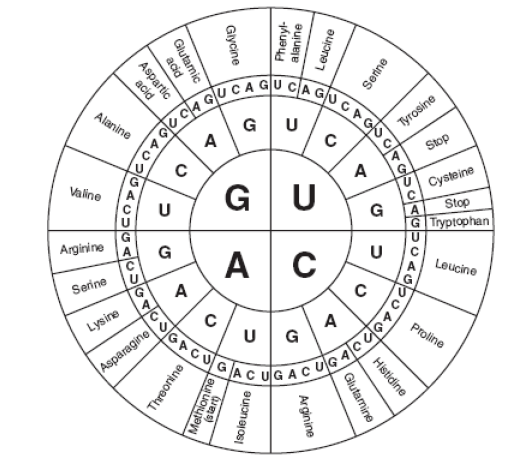
|  |  |
| --- | --- |
| Alphabet letter | DNA Codon |
| A | CGG |
| B | CGC |
| C | ACG |
| D | CTA |
| E | CTC |
| F | AAA |
| G | CCT |
| H | GTA |
| I | TAG |
| J | TAA |
| K | TTC |
| L | GAG |
| M | TAC |
| N | TTG |
| O | TTA |
| P | GGC |
| Q | GTC |
| R | GCA |
| S | AGC |
| T | TGG |
| U | TGC |
| V | CAA |
| W | ACC |
| X | CAG |
| Y | ATG |
| Z | ATA |

Find the DNA codon for each letter of your name from the table on the left:

Letters of your name:

DNA codons:

**Protein synthesis:**



Write the DNA codons for your name from the first page:

What would the corresponding mRNA codons be?

What would the tRNA anti-codons be?

What amino acid sequence would the mRNA code for? (use the codon wheel above)